## EAST Search History

| Ref# | Hits | Search Query  | DBs                                      | Default<br>Operator | Plurals | Time Stamp |
|------|------|---|--|---------------------|---------|------------|
| L1   | O    | (CDS or (correlat\$3 near1 doubl\$3 near1 doubl\$3 near1 sampl\$3) or (correlat\$3 near2 sampl\$3)) same (PGA or (doubl\$5 near1 sampl\$3)) same (PGA or (program\$5 near1 amplifier) or ((vary\$5 or variable or various or sel\$4) near1 gain near1 amplifier)) same ((combin\$6 or over\$1all) with gain with linear)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR                  | OFF     | 2008/04/21 |
| L2   | 6    | (CDS or (correlat\$3 near1 doubl\$3 near1 doubl\$3 near2 sampl\$3) or (correlat\$3 near2 sampl\$3)) same (PGA or (doubl\$3 near2 sampl\$3)) same (PGA or (program\$5 near1 gain near1 amplifier) or (v(rayf\$5 or variable or various or set\$4) near1 gain near1 amplifier)) same (gain with linear)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR                  | OFF     | 2008/04/21 |
| L3   | 15   | (CDS or (correlatS) nearl doubl\$3 nearl ampl\$3) or (correlat\$3 near2 sampl\$3) or (correlat\$3 near2 sampl\$3) or sampl\$3) same (FOA) sampl\$4 sampl\$5 nearl amplifier) or various or set\$4 nearl amplifier) or various or set\$4 nearl gain nearl amplifier) same ((combin\$6 or over\$tall) with gain) versity with gain pearl samplifier) same ((combin\$6 or over\$tall) with gain) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR                  | OFF     | 2008/04/21 |
| L4   | 39   | (CDS or (correlat\$3 near1 doubl\$3 near1 sampl\$3) or (correlat\$3 near2 sampl\$3) or (doubl\$5 near1 sampl \$3)) same (PGA or (program\$5 near1 gain near1 amplifier) or (((vary\$5 or variable or various or set\$4) near1 gain near1 amplifier)) same (gain near2 (digital or code or bit \$\$1))   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR                  | OFF     | 2008/04/21 |

| S1  | 63    | (CDS or (correlated near1 double near1 sampling)) same ((vary \$3 or variable or various) near2 (capacitance\$1 or capacitor\$1))                             | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/17<br>16:48  |
|-----|-------|---|--|----|-----|----------------------|
| S2  | 1     | 10/823859   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:02  |
| S3  | 1370  | amplifier with input<br>with ((vary\$3 or<br>variable or various or<br>set\$4 or program\$5)<br>near2 (capacitance\$1<br>or capacitor\$1))                    | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:16  |
| S4  | 81701 | (CDS or (correlat\$3<br>near1 doubl\$3 near1<br>sampl\$3) or (correlat\$3<br>near2 sampl\$3) or<br>(doubl\$3 near1 sampl<br>\$3))                             | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:18  |
| S5  | 12    | S3 same S4  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:18  |
| S6  | 77    | amplifier with (first<br>near1 input) with ((vary<br>\$3 or variable or<br>various or set\$4 or<br>program\$5) near2<br>(capacitance\$1 or<br>capacitor\$1))  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:20  |
| S7  | 88    | amplifier with (second<br>near1 input) with ((vary<br>\$3 or variable or<br>various or set\$4 or<br>program\$5) near2<br>(capacitance\$1 or<br>capacitor\$1)) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:20  |
| S8  | 54    | S6 and S7   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:20  |
| S9  | 9     | S4 and S8   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:21  |
| S10 | 3     | ("20050212591"  <br>"6661283"  <br>"6853241").PN. OR<br>("7276962").URPN.   | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/04/18<br>08:23  |
| S14 | 6     | (US-20050040886-\$ or<br>US-20030155967-\$),<br>did. or (US-7276962-\$<br>or US-6853241-\$ or US-<br>6476864-\$ or US-<br>6346968-\$), did.                   | US-PGPUB;<br>USPAT                       | OR | OFF | 2008/04/18<br>08: 26 |
| S15 | 13    | ("4609877"  <br>"4697152"   "5410270"<br>  "6661283").PN. OR<br>("6853241").URPN.   | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/04/18<br>08:28  |

| S17 | 114     | (CDS or (correlat\$3<br>near1 doubl\$3 near1<br>sampl\$3) or (correlat\$3<br>near2 sampl\$3) or<br>(doubl\$3 near1 sampl<br>\$3)) same (switch\$3<br>near1 capacitor\$1)<br>same amplifier                             | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:29 |
|-----|---------|--|--|----|-----|---------------------|
| S18 | 3363759 | image\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:36 |
| S19 | 55      | S17 and S18  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:36 |
| S20 | 9       | (US-20050040886-\$ or<br>US-20030155967-\$ or<br>US-20040075748-\$).<br>did. or (US-7276962-\$<br>or US-6853241-\$ or US-<br>6346968-\$ or US-<br>6727749-\$ or US-<br>6587143-\$).did.                                | US-PGPUB;<br>USPAT                       | OR | OFF | 2008/04/18<br>08:36 |
| S21 | 8       | S18 and S20  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:36 |
| S22 | 1       | S20 not S21  | US-PGPUB;<br>USPAT                       | OR | OFF | 2008/04/18<br>08:37 |
| S23 | 61040   | ((vary\$3 or variable or<br>various or set\$4 or<br>program\$5) near2<br>(capacitance\$1 or<br>capacitor\$1))  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:38 |
| S24 | 8       | S20 and S23  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:38 |
| S25 | 1       | S20 not S24  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:39 |
| S26 | 9       | (US-20050040886-\$ or<br>US-20030155967-\$ or<br>US-20040075748-\$),<br>did. or (US-7276962-\$<br>or US-6853241-\$ or US-<br>6346968-\$ or US-<br>6346968-\$ or US-<br>6727749-\$ or US-<br>6571749-\$ or US-          | US-PGPUB;<br>USPAT                       | OR | OFF | 2008/04/18<br>08:39 |
| S27 | 6       | S19 and S26  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:42 |
| S28 | 77      | [((CDS or (correlat\$3<br>near1 doubl\$3 near1<br>sampl\$3) or (correlat\$3<br>near2 sampl\$3) or<br>((doubl\$3 near1 sampl<br>\$3)) same ((switch\$3<br>near1 capacitor\$1) or<br>S23) same ampilier)<br>and image\$1 | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:46 |

| S29 | 9     | (US-20050040886-\$ or<br>US-20030155967-\$ or<br>US-20040075748-\$),<br>did. or (US-7276962-\$<br>or US-6853241-\$ or US-<br>6346968-\$ or US-<br>6727749-\$ or US-<br>6587143-\$).did.  | US-PGPUB;<br>USPAT                       | OR | OFF | 2008/04/18<br>08:46 |
|-----|-------|--|--|----|-----|---------------------|
| S30 | 6     | S28 and S29  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:46 |
| S31 | 3     | S29 not S30  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:46 |
| S32 | 25    | ((CDS or (correlat\$3<br>near1 doubl\$3 near1<br>sampl\$3) or (correlat\$3<br>near2 sampl\$3) or<br>(doubl\$3 near1 sampl<br>\$3),iii. and ((switch\$3<br>near1 capacitor\$1) or<br>\$23) same amplifier)<br>and image\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>08:53 |
| S33 | 285   | (CDS or (correlat\$3 near1 sampl\$3) or (correlat\$3 near2 sampl\$3) or (doubl\$3 near2 sampl\$3) same (PGA or (program\$5 near1 gain near1 amplifier) or ((vary\$3 or variable or various or set\$4) near1 gain near1 amplifier)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>09:22 |
| S34 | 275   | ((CDS or (correlat\$3 near1 doubl\$3 near1 doubl\$3 near3 sampl\$3) or (correlat\$3 near2 sampl\$3) or (doubl\$3 near2 sampl\$3)) with gain) and ((PGA or (program\$5 near1 gain near1 amplifler) or (vary\$3 or variable or various or set\$4) near1 gain near1 amplifler) with gain) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>09:23 |
| S35 | 224   | S33 and S34  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>09:23 |
| S36 | 9081  | ((overall or combin\$4)<br>near1 gain)   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>09:23 |
| S37 | 41506 | ((digital or bits) with gain)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>09:23 |
| S38 | 10    | S35 and S36 and S37  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>09:24 |

| S39 | 12   | (US-20050040886-\$ or US-2003015596"\$ or US-2003015596"\$ or US-20030132670-\$). did. or (US-7276962-\$ or US-6852241-\$ or US-6852241-\$ or US-6346968-\$ or US-6346968-\$ or US-6374749-\$ or US-6387143-\$ or US-6387143-\$ or US-6383720-\$ or US-6383720-\$ or US-6383787-\$). did.     | US-PGPUB;<br>USPAT                       | OR | OFF | 2008/04/18<br>09:25 |
|-----|------|---|--|----|-----|---------------------|
| S40 | 8    | (S36 or S37) and S39  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>09:25 |
| S41 | 3290 | (digital near1 gain)  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>09:25 |
| S42 | 5    | S39 and S41   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>09:26 |
| S43 | 10   | ((CDS or (correlat\$3 near1 doubt\$3 near1 sampl\$3) or (correlat\$3 near2 sampl\$3) or (doubt\$3 near2 sampl\$3)) with gain with bits) and ((PGA or (program\$5 near1 gain near1 amplifier) or ((vary\$3 or variable or various or sel\$4) near1 gain near1 amplifier)) with gain with bits) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18          |
| S44 | 110  | (ICDS or (correlat\$3 near1 doubl\$3 near1 doubl\$3 near1 sampl\$3) or (correlat\$3 near2 sampl\$3)) with gain with bits) and (ICPA or (program\$5 near1 gain near1 amplifier) or (I(vary\$3 or variable or various or sel\$4) near1 gain near1 amplifier)) with gain with bits)              | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>14:20 |
| S45 |      | (CDS or (correlat\$3 near1 doubl\$3 near1 doubl\$3 near1 sampl\$3) or (correlat\$3 near2 sampl\$3) or (correlat\$3 near2 sampl\$3) same (PGA or (program\$5 near1 samplifler) or ((vary\$3 or variable or variable or variable or same (digital adj¹ gain) same bit\$1                        | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>14:21 |

| S46 | 5.5   | (CDS or (correlat\$3 near1 doubl\$3 near1 sampl\$3) or (correlat\$3 near2 sampl\$3) or (doubl\$3 near1 sampl\$3)) same (PGA or (program\$5 near1 sampl near1 amplifier) or ((vary\$3 or variable or various or set\$4) near1 gain near1 amplifier)) same (gain) same bit\$5      | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18          |
|-----|-------|--|--|----|-----|---------------------|
| S47 | 15    | ("4887321"   "5554944"   "5698999"   "5949443"   "5698999"   "5949443"   "6184726"   "6252536"   "6366320"   "6529237"   "6583416"   "6564305"   "6617567"   "6670598"   "7670598"   "688367") - PN. OR ("6838787") UHPN.  | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/04/18<br>14:35 |
| S48 | 5     | 09/075382  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:18 |
| S49 | 4     | 10/107892  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:18 |
| S50 | 2021  | unit adj1 capacitor  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:33 |
| S58 | 1078  | (CDS or (correlat\$3 near1 doubl\$3 near1 asampl\$3) or (correlat\$3 near2 sampl\$3) or (doubl\$3 near2 sampl\$3) or (doubl\$3 near1 sampl \$3)) and (PGA or (program\$5 near1 gain near1 amplifier) or ((vary\$3 or variable or various or set\$4) near1 gain near1 amplifier)) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:36 |
| S59 | 5     | S50 and S58  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:36 |
| S60 | 53942 | two near1 bits   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:42 |
| S61 | 2     | (CDS or (correlat\$3<br>near1 doubl\$3 near1<br>sampl\$3) or (correlat\$3<br>near2 sampl\$3) or<br>(doubl\$3 near1 sampl<br>\$3)) with gain with S60   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:42 |
| S62 | 10542 | gain near1 level\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:44 |

| S63 | 32    | (CDS or (correlat\$3<br>near1 doubl\$3 near1<br>sampl\$3) or (correlat\$3<br>near2 sampl\$3) or<br>(doubl\$3 near1 sampl<br>\$3)) with S62                    | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:44 |
|-----|-------|---|--|----|-----|---------------------|
| S64 | 12923 | (four or "4") near2 gain<br>\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:46 |
| S65 | 31    | (CDS or (correlat\$3<br>near1 doubl\$3 near1<br>sampl\$3) or (correlat\$3<br>near2 sampl\$3) or<br>(doubl\$3 near1 sampl<br>\$3)) with (digital adj1<br>gain) | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:46 |
| S66 | 37    | (CDS or (correlat\$3<br>near1 doubl\$3 near1<br>sampl\$3) or (correlat\$3<br>near2 sampl\$3) or<br>(doubl\$3 near1 sampl<br>\$3)) with S64                    | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:46 |
| S67 | 5141  | (four or "4") near1 gain<br>\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:46 |
| S68 | 18    | (CDS or (correlat\$3<br>near1 doubl\$3 near1<br>sampl\$3) or (correlat\$3<br>near2 sampl\$3) or<br>(doubl\$3 near1 sampl<br>\$3)) with \$67                   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/04/18<br>15:46 |
| S69 | 4     | ("5724000"  <br>"5986497"  <br>"6147551").PN. OR<br>("6388500").URPN.   | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/04/18<br>15:51 |
| S70 | 9     | ("5436657"  <br>"5648818"   "5724000"<br>  "5986497"  <br>"6147551"   "6259857"<br>  "6295087").PN. OR<br>("6563364").URPN.                                   | US-PGPUB;<br>USPAT; USOCR                | OR | OFF | 2008/04/18<br>15:51 |

<sup>4/21/08 3:18:32</sup> PM

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